

Life Sciences: Bio-Medical Industry

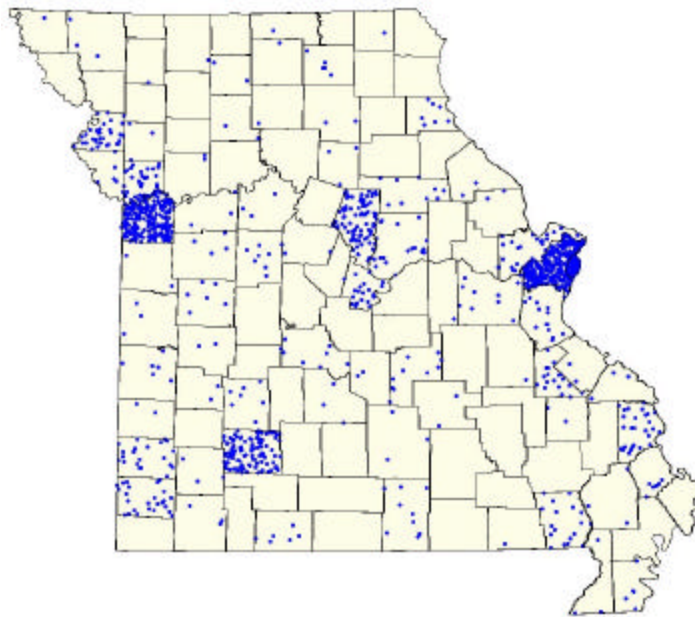
INDUSTRY DESCRIPTION

The Life Sciences Bio-Medical industry includes hospitals, medical laboratories, and firms engaged in the manufacture of drugs. This industry is a compilation of several sectors: medicinal chemicals and botanical products (SIC 2833); pharmaceuticals (SIC 2834); in-vitro and in-vivo diagnostic substances (SIC 2835); biological products (SIC 2836); general medical and surgical hospitals (SIC 8062); psychiatric hospitals (SIC 8063); specialty hospitals (SIC 8069); medical laboratories (SIC 8071); and dental laboratories (SIC 8072).

LIFE SCIENCES: BIO-MEDICAL INDUSTRY MISSOURI INDICATORS, 1990-2000

	1990	2000	Percent Change
Total Employment	134,471	139,911	4.1% ↑
Total Wages (Millions, 2000 Dollars)	\$4,212.7	\$4,749.9	12.8% ↑
Annual Wage Per Job (2000 Dollars)	\$31,332	\$33,948	8.4% ↑
Total Firms	601	618	2.8% ↑

Source: ES-202, MO Department of Economic Development



• = 100 Jobs

Specialization Ratios

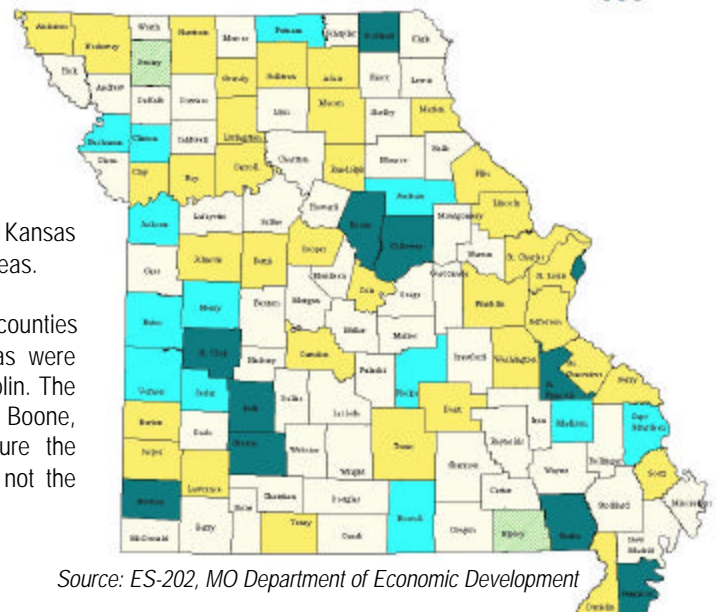
- High Specialization (SR > 1.5)
- Above Average Specialization (SR = 1.05 - 1.5)
- Average Specialization (SR = .95 - 1.05)
- Below Average Specialization (SR = .500 - .95)
- Low Specialization (SR < .50)



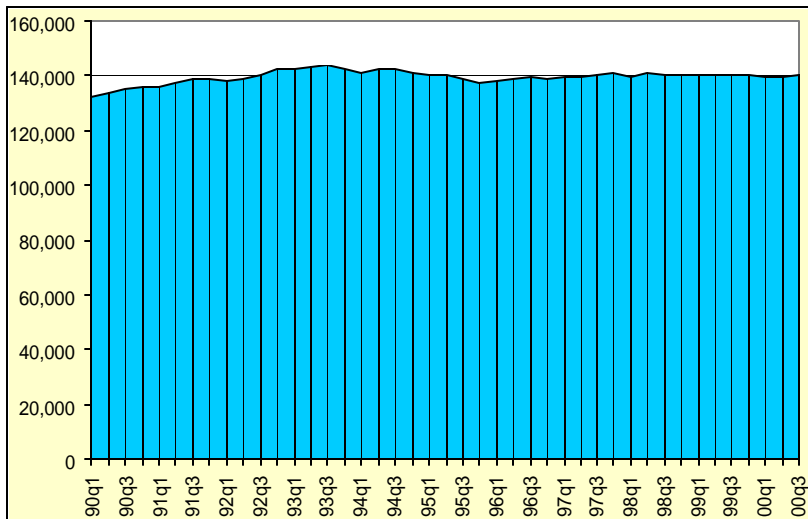
EMPLOYMENT AND SPECIALIZATION, 2000

In 2000, the majority of bio-medical jobs were located in St. Louis, Kansas City, Columbia, Springfield, and in several regional towns in rural areas.

According to specialization ratios (location quotients), 11 Missouri counties were highly specialized in bio-medical employment. These areas were concentrated in central Missouri, St. Louis City, Springfield and Joplin. The most specialized counties in the state were Newton, Callaway, Boone, Butler, and Scotland. It is important to note that SRs measure the proportion of industry employment relative to the state average, not the total number of jobs.



Source: ES-202, MO Department of Economic Development

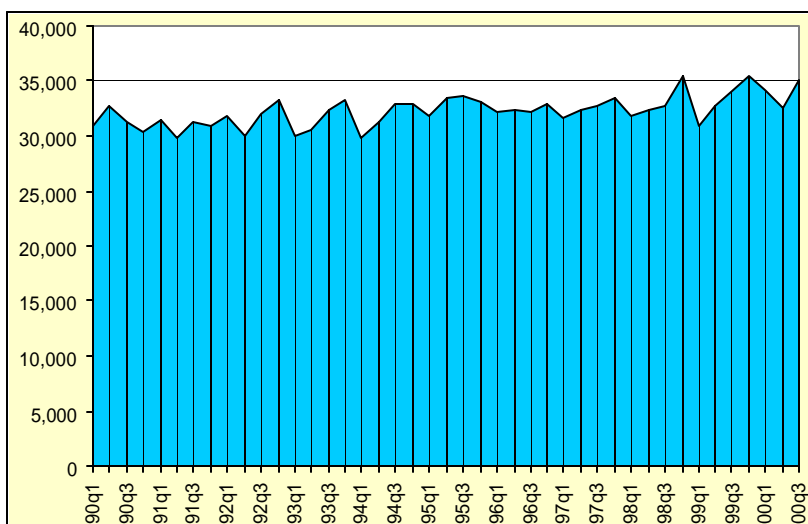


EMPLOYMENT TRENDS, 1990-2000

Bio-medical employment in Missouri has increased during the last decade. Employment peaked in 1993, yet has leveled off since then. The most current data estimates 140,645 bio-medical jobs during 3rd quarter 2000.

Employment was highest during 3rd quarter 1993, with 143,611 jobs. Employment was lowest during 1st quarter 1990, with 132,545 jobs.

Source: ES-202, MO Department of Economic Development



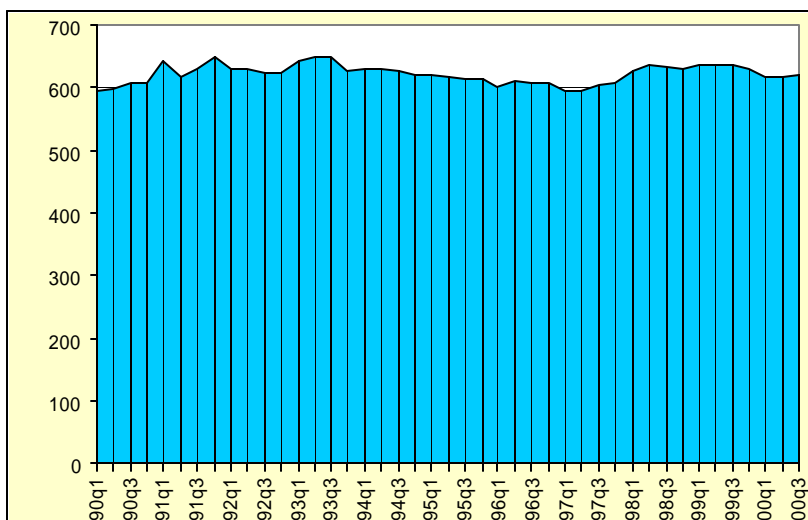
ANNUAL AVERAGE WAGE PER JOB TRENDS, 1990-2000

Annual average wages per job in the bio-medical industry in Missouri has increased since 1990. The most current data estimates an average wage per job of \$35,069 during 3rd quarter 2000 - somewhat higher than the state average wage of \$30,497. During the past decade, average wages per job showed peaks in the 4th quarter - indicating seasonality.

Average wages per job were highest during 4th quarter 1998, at \$35,557 per job. Average wages per job were lowest during 1st quarter 1994, at \$29,776 per job.

Wages adjusted to 2000 real dollars.

Source: ES-202, MO Department of Economic Development



FIRM TRENDS, 1990-2000

The number of bio-medical firms in Missouri has increased slowly since 1990. Establishments have grown slowly since 1997. The most current data estimates 620 bio-medical firms during 3rd quarter 2000.

Firms were most numerous during 4th quarter 1991, at 649 establishments. Firms were least numerous during 1st quarter 1990, at 594 establishments.

Source: ES-202, MO Department of Economic Development

For more information:

Research and Planning
Missouri Department of Economic Development
620 Harry S. Truman Building
Jefferson City, Missouri 65102



TEL: 573-522-6261
FAX: 573-751-7385
E-MAIL: dpeters4@mail.state.mo.us
WEB: <http://www.MissouriEconomy.org>